

CLAIMS

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1. A video printer, comprising:

means responsive to first data representative of successive lines of a video raster scan, for deriving second data representative of successive columns of data extending transversely across lines of said video raster scan from said first data; means for printing the columns of data successively; memory means for storing data representative of fields of said raster scan;

means comprising internal memory means for storing data representative of fields of said raster scan and means for reading the columns of data from the memory means, for converting data stored in said memory means, for successive fields of the raster scan, into the columns of digital video data during respective successive periods associated with the occurrence of successive field periods of the scan.

2. A video printer according to claim 1 wherein successive fields of the raster scan have associated therewith respective blanking periods, and the columns of data are read from the memory means during respective successive ones of the blanking periods.

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3. A video printer according to claim 1, further comprising:

video output means for receiving said raster scan read from said memory means,

and

monitoring address generating means for addressing the memory means to produce

said scan raster scan for said video output means.

*Sub F2* 4. A video printer according to claim 1, further comprised of said raster scan data being is representative of a color video display, and said memory means comprises a plurality of memory units for storing respective different color representing signals for the raster scan field.

5. A video printer according to claim 4 wherein the printing means is operative to print said different color representing signals successively.

6. A video printer according to claim 1, further comprising printing address generating means for supplying address signals to the memory means to derive each said column of data successively.

7. A video printer according to claim 1, further comprising recording address generating means for generating storage addresses in the memory means for input video data representative of said raster scan.

*Sub F2* 8. A video printer according to claim 5, further comprised of each color representing data for a field thereof stored in the memory means being printed during a period associated with a respective field period of the raster scan.

*Fig. 6a* 9. A high speed color video printer, comprising:

means comprising memory means for storing digital chrominance signals, for converting said digital chrominance signals into a sequence of columns of video data for each field, and into analog chrominance signals into digital video data;

means for storing digital video signals are stored into internal memory means, column unit of video data is outputted during one field period of blanking signal interval, and field unit of video data is outputted to a display side during a residual period which excludes a periods whereunder video data is outputted to print during one field period;

selection means for selectively providing one color of video data out of column unit of video data outputted from said data converting means;

line memory means for enabling printing by storing and then reading video data selectively provided by said selective means; and

digital-to-analog converter means for enabling a display by converting field unit of video data from said data converting means into analog signals.

*Fig. 6b*  
*Fig. 6c*